DATASHEET
FUJITSU ESPRIMO P7935 0-WATT DESKTOP PC

THE WORLD'S FIRST 0-WATT PC

ESPRIMO P7935 0-WATT

As the world's first 0-Watt PC, the ESPRIMO P7935, equipped with innovative technology from Fujitsu and Intel®, is a power-saving miracle and the ideal companion for all highly demanding business applications - all in one. Made of specially selected material and, in addition to the 0 Watt function, equipped with further power-save options, such as a switched monitor outlet and power save management, this ESPRIMO microtower PC already meets today the legal requirements of tomorrow. Furthermore, this microtower, equipped with a up to 89% efficient power supply and selected components, already meets today the strict criteria defined by ENERGY STAR® 5.0. Top performance and power save for all demands.

0-WATT PC

Cost savings by completely reducing off-mode losses

- Patented function for 0 Watt power consumption in off mode/hibernating with simultaneous management in a time slot that can be optionally set

ENVIRONMENTALLY COMPATIBLE PRODUCT

Your contribution to environmental protection for the continued existence of our planet

- Halogen-free mainboard, sophisticated product concept for the entire lifecycle

ENERGY STAR® 5.0

Low power consumption and costs with no loss in performance.

- Power supply with up to 89% efficiency and a range of special components

SYSTEM MANAGEMENT

Simple system administration for complex IT infrastructures

- Intel® vPro™ technology

QUIET

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized fan concept

COMPONENTS

PROCESSOR	Intel® Core™2 Quad processor Q9650 (4C/4T, 3.0 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9550 (4C/4T, 2.83 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9505 (4C/4T, 2.83 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9400 (4C/4T, 2.66 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q8300 (4C/4T, 2.5 GHz, 4 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8600 (2C/2T, 3.33 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8500 (2C/2T, 3.16 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8400 (2C/2T, 3.0 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E7600 (2C/2T, 3.06 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor E7500 (2C/2T, 2.93 GHz, 3 MB, 1066 MHz)
	Intel® Pentium® processor E6300 (2C/2T, 2.8 GHz, 2 MB, 1066 MHz)
	Intel® Pentium® processor E5400 (2C/2T, 2.7 GHz, 2 MB, 800 MHz)
	Intel® Pentium® processor E5300 (2C/2T, 2.6 GHz, 2 MB, 800 MHz)
	Intel® Celeron® processor E3200 (2C/2T, 2.4 GHz, 1 MB, 800 MHz)
MEMORY MODULES	4 GB (1 module(s) 4 GB) DDR2, 800 MHz, PC2-6400
	2 GB (2 module(s) 1 GB) DDR2, 800 MHz, PC2-6400
	2 GB (1 module(s) 2 GB) DDR2, 800 MHz, PC2-6400
	1 GB (1 module(s) 1 GB) DDR2, 800 MHz, PC2-6400
HARD DISK DRIVES (INTERNAL)	SSD SATA, 128 GB, 2.5-inch
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
Hard disk notes	Supporting NCQ and 3 GBit
GRAPHICS ADD ON CARDS (OPTIONAL)	ATI Radeon® HD 3450, 256 MB
	Dual DVI Adapter
	DVI Extension Adapter
	NVIDIA® GeForce® 9300GE, 256 MB
	NVIDIA® GeForce® 9300GE, 512 MB
	NVIDIA® Geforce® 9300GE display port low profile, 512 MB
	NVIDIA® GeForce® 9500GS, 512 MB
	NVIDIA® Quadro NVS 290, 256 MB
MODULAR BAY OPTIONS	1.44 MB Floppy
	Blu-ray Disc Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, 3,5-Inch
INTERFACE ADD ON CARDS/COMPONENTS (OPTIONAL)	
	Parallel Interface
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092
Base unit	ESPRIMO P7935 0-Watt
MAINBOARD	
Mainboard type	D2812-A2x

MAINBOARD	
Formfactor	µBTX
Chipset	Intel® Q45
Processor socket	LGA 775
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	16 GB
Memory frequency	800 MHz
Memory notes	Dual channel support. For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Intel® 82567 LM
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC663
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound
I/O CONTROLLER ON BOARD	
Serial ATA total	4
thereof eSATA	2 (optional)
Controller functions	Serial ATA II NCQ and 3 GBit AHCI Raid 1/0
INTERFACES	
Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
DVI	optional
Ethernet (RJ-45)	1
Front audio: headphone	1
Front audio: microphone	1
Mouse / Keyboard (PS/2)	2
Parallel	optional (25pin with EPP and ECP)
Serial (RS-232)	1 (9pi, 16 byte FIFO, 16550 compatible)
USB front	2
USB internal	4, thereof 2 optional rear
USB rear	6
USB 2.0 total	12
VGA	1
INPUT DEVICE / COMPONENTS	
	Optical USB tilt wheel mouse Optional: Optical USB/PS2 tilt wheel mouse
DRIVE BAYS	
Drive bays total	6
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2
SLOTS	
PCI-Express x16	1 x (230 mm) FlexySlot
PCI-Express x4 (mech. x8)	1 x (230 mm) full height
PCI (32-bit / 33 MHz)	2 x (170 / 315 mm) full height
GRAPHICS ON BOARD	
Graphics brand name	Intel® GMA 4500

GRAPHICS ON BOARD	
Shared video memory	up to 256 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
Graphics features	DirectX 10
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
ELECTRICAL VALUES	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 86% / 89% / 87%
	0-Watt mode automatically
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	250 W
Power factor correction/active power	active
Monitor outlet	Switched
POWER CONSUMPTION	
Power consumption note	see white paper Energy Consumption 0-Watt mode automatically
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=7aab2321-f3a1-4844-a781-8f10a619e179
HEAT DISSIPATION	
Heat dissipation notes	see white paper Energy Consumption
NOISE FOR STANDARD CONFIGURATION (HDD, ODD, FDD)	
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8600
Noise Operation mode 1: ODD load (Blue angel requirement)	4.5 B / 30 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 4: High load	3.5 B / 19 dB(A)
Noise Operation mode 5: Office applications	3.5 B / 19 dB(A)
Idle mode (Blue Angel requirement)	3.5 B / 19 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position
DIMENSIONS / WEIGHT / ENVIRONMENTAL	
Dimensions (W x D x H)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg

DIMENSIONS / WEIGHT / ENVIRONMENTAL	
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	15 - 35°C
COMPLIANCE	
Product	ESPRIMO P7935
Model	MI3W-D2812
Germany	Blauer Engel / Blue Angel GS optional
Europe	CE Nordic Swan
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 EPEAT® Silver
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx
OPERATING SYSTEM	
Operating system optional preinstalled	Microsoft® Windows® 7 Home Premium Microsoft® Windows® 7 Professional Microsoft® Windows Vista® Home Basic Microsoft® Windows Vista® Home Premium Microsoft® Windows Vista® Business 32-bit Microsoft® Windows Vista® Business 64-bit TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux
Operating system notes	All Windows Vista® and Windows® 7 versions are Office 2007 ready.
ADDITIONAL SOFTWARE	
Additional software (preinstalled)	Nero Essentials S (burning software)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive)
MISCELLANEOUS	
	Thermal management
COMPATIBILITY (REFERENCES)	
	DMI 2.0 PC 2001 WMI 1.5 USB 2.0
MANAGEABILITY	
Manageability features	ASF 2.0 (Alert Standard Format) DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional) PXE 2.1 Boot code BootP Boot Code including Bootmanage Administrator Software (tested) Wake up from S5 (off mode) Intrusion switch (optional) iAMT 5.0
Manageability type	DeskView 10.x client management including:

MANAGEABILITY

DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Advanced alerts (ASF implementation) Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
Manageability link	http://ts.fujitsu.com/manageability http://www.altiris.com/fujitsu

SECURITY

Physical security	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
System security	Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) - Infineon Control of all USB interfaces External USB ports can be disabled separately Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of external interfaces
User security	User and supervisor BIOS password SystemLock 2 BIOS SmartCard Security Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader

SERVICEABILITY

	FlexySlot EasyFix EasyChange for HDD EasyChange for optical drives

PACKAGING INFORMATION

Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (g) EPS / PS	230 g
Material - Weight (g) PE	appr. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process

WARRANTY
MAINTENANCE AND SUPPORT SERVICES - THE PERFECT EXTENSION

Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu ESPRIMO P7935 0-Watt, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach,Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructureas-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

MORE INFORMATION

Learn more about Fujitsu ESPRIMO P7935 0-Watt, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/ESPRIMO

FUJITSU GREEN POLICY INNOVATION

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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2009-12-23 CE-EN